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SEP 30 2002

Page 1 of 7

TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/161,122

DATE: 09/18/2002

TIME: 16:08:52

Input Set : A:\7682-045 Sequence Listing.txt

Output Set: N:\CRF4\09182002\I161122.raw

ENTERED

4 <110> APPLICANT: Hong Jin et al.
6 <120> TITLE OF INVENTION: Recombinant RSV Expression Systems and
7 Vaccines
9 <130> FILE REFERENCE: 7682-045
11 <140> CURRENT APPLICATION NUMBER: 09/161,122
12 <141> CURRENT FILING DATE: 1998-09-25
14 <160> NUMBER OF SEQ ID NOS: 47
16 <170> SOFTWARE: FastSEQ for Windows Version 4.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 46
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Oligonucleotide
26 <400> SEQUENCE: 1
27 cgacgcatat tacgcgaaaa aatgcgtaca acaaacttgc ataaac 46
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 50
31 <212> TYPE: DNA
32 <213> ORGANISM: Artificial Sequence
34 <220> FEATURE:
35 <223> OTHER INFORMATION: Oligonucleotide
37 <400> SEQUENCE: 2
38 caaaaaaatg gggcaaataa gaatttgata agtaccactt aaatttaact 50
40 <210> SEQ ID NO: 3
41 <211> LENGTH: 24
42 <212> TYPE: DNA
43 <213> ORGANISM: Artificial Sequence
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Oligonucleotide
48 <400> SEQUENCE: 3
49 ctagagttaa atttaagtgg tact 24
51 <210> SEQ ID NO: 4
52 <211> LENGTH: 50
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: Oligonucleotide
59 <400> SEQUENCE: 4
60 tatcaaattc ttatttgccc catttttttg gtttatgcaa gtttgttgta 50
62 <210> SEQ ID NO: 5
63 <211> LENGTH: 30
64 <212> TYPE: DNA

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65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <223> OTHER INFORMATION: Oligonucleotide
70 <400> SEQUENCE: 5
71 cgcatttttt cgcgtaatat gcgtcggtac 30
73 <210> SEQ ID NO: 6
74 <211> LENGTH: 50
75 <212> TYPE: DNA
76 <213> ORGANISM: Artificial Sequence
78 <220> FEATURE:
79 <223> OTHER INFORMATION: Oligonucleotide
81 <400> SEQUENCE: 6
82 gtattcaatt atagtatta aaaattaaaa atcatataat tttttaaata 50
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 50
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Oligonucleotide
92 <400> SEQUENCE: 7
93 acttttagtg aactaatcct aaagttatca ttttaatctt ggaggaataa 50
95 <210> SEQ ID NO: 8
96 <211> LENGTH: 50
97 <212> TYPE: DNA
98 <213> ORGANISM: Artificial Sequence
100 <220> FEATURE:
101 <223> OTHER INFORMATION: Oligonucleotide
103 <400> SEQUENCE: 8
104 atttaaacc ctaatctaatt ggtttatatg tgtattaact aaattacgag 50
106 <210> SEQ ID NO: 9
107 <211> LENGTH: 46
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
111 <220> FEATURE:
112 <223> OTHER INFORMATION: Oligonucleotide
114 <400> SEQUENCE: 9
115 atattagttt ttgacacttt ttttctcggt atagtgagtc gtatta 46
117 <210> SEQ ID NO: 10
118 <211> LENGTH: 25
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
122 <220> FEATURE:
123 <223> OTHER INFORMATION: Oligonucleotide
125 <400> SEQUENCE: 10
126 agcttaatac gactcactat aacga 25
128 <210> SEQ ID NO: 11
129 <211> LENGTH: 50
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence

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133 <220> FEATURE:
134 <223> OTHER INFORMATION: Oligonucleotide
136 <400> SEQUENCE: 11
137 gaaaaaaagt gtcaaaaact aatatctcgt aatttagtta atacacatat      50
139 <210> SEQ ID NO: 12
140 <211> LENGTH: 50
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Oligonucleotide
147 <400> SEQUENCE: 12
148 aaaccaatta gattagggtt taaatttatt cctccaagat taaaatgata      50
150 <210> SEQ ID NO: 13
151 <211> LENGTH: 50
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Oligonucleotide
158 <400> SEQUENCE: 13
159 acttttaggat tagttcacta aaagttattt aaaaaattat atgattttta      50
161 <210> SEQ ID NO: 14
162 <211> LENGTH: 29
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Oligonucleotide
169 <400> SEQUENCE: 14
170 atttttaata actataattg aatactgca      29
172 <210> SEQ ID NO: 15
173 <211> LENGTH: 17
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Primer
180 <400> SEQUENCE: 15
181 gttaacacg tggtag      17
183 <210> SEQ ID NO: 16
184 <211> LENGTH: 17
185 <212> TYPE: DNA
186 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <223> OTHER INFORMATION: Primer
191 <400> SEQUENCE: 16
192 acatataggc atgcacc      17
194 <210> SEQ ID NO: 17
195 <211> LENGTH: 17
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:

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200 <223> OTHER INFORMATION: Primer
202 <400> SEQUENCE: 17
203 gcaaaatgga tccatt
205 <210> SEQ ID NO: 18
206 <211> LENGTH: 18
207 <212> TYPE: DNA
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Primer
213 <400> SEQUENCE: 18
214 tggttggtat accagtgt
216 <210> SEQ ID NO: 19
217 <211> LENGTH: 18
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Primer
224 <400> SEQUENCE: 19
225 taccaagagc tcgagtca
227 <210> SEQ ID NO: 20
228 <211> LENGTH: 21
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Primer
235 <400> SEQUENCE: 20
236 ggtggccggc atggtcccag c
238 <210> SEQ ID NO: 21
239 <211> LENGTH: 20
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: Primer
246 <400> SEQUENCE: 21
247 ttaccatat gcgctaatt
249 <210> SEQ ID NO: 22
250 <211> LENGTH: 19
251 <212> TYPE: DNA
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Primer
257 <400> SEQUENCE: 22
258 acgcgaaaaa atgcgtaca
260 <210> SEQ ID NO: 23
261 <211> LENGTH: 18
262 <212> TYPE: DNA
263 <213> ORGANISM: Artificial Sequence
265 <220> FEATURE:
266 <223> OTHER INFORMATION: Primer

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268 <400> SEQUENCE: 23
269 acgagaaaaa agtggcaa 18
271 <210> SEQ ID NO: 24
272 <211> LENGTH: 17
273 <212> TYPE: DNA
274 <213> ORGANISM: Artificial Sequence
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Primer
279 <400> SEQUENCE: 24
280 ctcaccacgt gttaaac 17
282 <210> SEQ ID NO: 25
283 <211> LENGTH: 17
284 <212> TYPE: DNA
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Primer
290 <400> SEQUENCE: 25
291 ggtgcatgcc tatatgt 17
293 <210> SEQ ID NO: 26
294 <211> LENGTH: 19
295 <212> TYPE: DNA
296 <213> ORGANISM: Artificial Sequence
298 <220> FEATURE:
299 <223> OTHER INFORMATION: Primer
301 <400> SEQUENCE: 26
302 aatgggatcc atttgtcc 19
304 <210> SEQ ID NO: 27
305 <211> LENGTH: 19
306 <212> TYPE: DNA
307 <213> ORGANISM: Artificial Sequence
309 <220> FEATURE:
310 <223> OTHER INFORMATION: Primer
312 <400> SEQUENCE: 27
313 aacactggta taccaacca 19
315 <210> SEQ ID NO: 28
316 <211> LENGTH: 20
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial Sequence
320 <220> FEATURE:
321 <223> OTHER INFORMATION: Primer
323 <400> SEQUENCE: 28
324 acattagcgc atatggtaaa 20
326 <210> SEQ ID NO: 29
327 <211> LENGTH: 2165
328 <212> TYPE: PRT
329 <213> ORGANISM: Virus
331 <400> SEQUENCE: 29
332 Met Asp Pro Ile Ile Asn Gly Asn Ser Ala Asn Val Tyr Leu Thr Asp
333 1 5 10 15

```

VERIFICATION SUMMARY

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